



To express interest in this assignment please email priyanka.subba@crs.org
CRS Farmer to Farmer Program
Volunteer Assignment Scope of Work

Summary Information	
Assignment Code	NEP215
Country	Nepal
Country Project	Crops Country Project
Host Organization	Small Farmer Agriculture Cooperative Limited (SFACL)- Bajrabarahi, Thaha Municipality-6, Tistung, Makawanpur
Assignment Title	Grafting technology for production of healthy Pepper and Killing Chilly seedlings
Assignment preferred dates	February-March, 2020
Objectives of the assignment	Train technician and lead farmers on how to produce healthy Pepper and Killing Chilly seedlings through grafting technology
Desired volunteer skill/expertise	Previous working experiences in grafting technology, plant pathology and diseases management
Type of Volunteer Assistance	Technology Transfer = T
Type of Value Chain Activity	On Farm Production = F
PERSUAP Classification	PERSUAP Type I

A. BACKGROUND

Small Farmer Agriculture Cooperative (SFACL), is located on Thaha Municipality Ward No:6 Bajrabarahi, Makawanpur. The Cooperative was established on 2005 A.D covering previous Bajrabarahi Village Development Committee (VDC). It is formed by 173 farmers groups with 1307 active members (Male 508 and Female 754). The main goal of cooperative is to support its members to be commercial to reduce poverty. The cooperative also runs micro finance facility for the members to avail cash to buy necessary inputs and other means of their livelihoods.

The members of cooperatives rely on agricultural production for their daily livelihoods. Vegetable production, small livestock and dairy production are integral part of the daily livelihoods. However, the share of crops in livelihoods is more compare to other activities. Bajrabarahi is famous for its off-season vegetables that are sold in major markets all over the country. Looking into the prospect Government has implemented Prime Minister Agriculture Modernization Project (PMAMP) which declared the pocket as vegetable pocket zone. The farmers produce vegetable likes potatoes, cauliflower, cabbage, leafy vegetables, chilling Peppers, Killing Chilly called Akhabare Khursani in

Nepali, garlic, tomatoes, onions etc. and is a major vegetable source in major cities; Kathmandu, Hetauda, Pokhara, Narayanghat, Butwal, Birjung and Lalitpur.

B. ISSUE DESCRIPTION

Bajrabarahi is one of the major off seasonal vegetables pocket areas of Nepal where 90% of farmers grow vegetables such as Cauliflower, Cabbage, Potato, Peper, killing Chilly, tomatoes etc. Vegetables occupies 50% to 90% of the total household income. Farmers are growing vegetables in small parcel of land and vegetable crops loss is adversely affecting farmers' livelihoods. Farmers livelihoods are directly linked with good and informed practices farmers adopt to increase production to raise quality of produces.

The next to market for the producers is Kathmandu. Other large cities like Bharatpur, Pokhara and Hetauda are also nearby markets for this vegetable pocket. The volume of transaction is not an issue for this source. Most of farmers are selling Cauliflower and Cabbage to these markets. Pepper and Killing Chilly are the second option for farmers because of their high value nature.

The pepper (capsicum) and killing chilly crops are facing wilting. The wilting started when the crops starts fruiting. Recently F2F housed a volunteer with the host to curb club root disease. As a plant Pathologist, NE212 volunteer engaged with farmers in the field and observed the pepper and killing chilly problem. She opined that the disease is caused by bacterial infection and recommend a grafting training to the pepper and chilly grower. The host is looking forward to engaging with grafting specialist to curb the diseases. The host has requested grafting technology expert to produce healthy seedling for pepper (capsicum) and killing chilly.

C. OBJECTIVES OF THE ASSIGNMENT

Train technician and lead farmers on how to produce healthy Pepper and Killing Chilly seedlings through grafting technology reduce crop lose due to wilting.

The volunteer expert will spend significant time with the small holder's vegetable growers and technicians demonstrating on farm trainings on grafting technology produce healthy seedlings in pepper and killing chilly.

The volunteer will also develop practical guidelines to support in further dissemination of this assignment recommendations to farmers that cannot be reached during this assignment.

D. HOST CONTRIBUTION

Small Farmer Agriculture Cooperative Limited (SFACL) will facilitate the volunteers to reach the targeted vegetable growers and ensure successful assignment completion.

E. ANTICIPATED RESULTS (Outcome/impact) FROM THE ASSIGNMENT

It is anticipated that this volunteer assignment will equip farmers with new knowledge and skills on seedling grafting technology, importance of healthy seedlings to reduce crop loses, identification and selection of healthy rootstock for grafting which will result into the following outcomes/impacts;

- Increased incomes by reducing disease incidences in pepper and killing chilly

- Adopting new knowledge and technologies
- Production and scaling up of healthy Pepper and Killing Chilly seedlings by host

F. DELIVERABLES

The anticipated deliverables accomplished by the volunteer also include:

- Hands of training on seedling grafting technology followed by its principles
- Basic guideline preparation for farmers and technicians on grafting technology
- Host recommendations action plan developed
- Outreach Activity

G. SCHEDULE OF VOLUNTEER ACTIVITIES IN COUNTRY (DRAFT)

Day	Activity
Days 1	Arrival Nepal, Tribhuvan international Airport. The volunteer will be picked by Greenwich Hotel with a placard bearing “ CRS logo and volunteer name ”.
Day 2	Introduction and meeting with CRS management, and briefing meeting (security, general orientation, logistic, reporting formats, etc) at CRS office. Discuss anticipated outcomes and work plan.
Day 3	Travel to assignment site. Introduction and assignment briefing with host representatives
Days 4 – 14	Complete assignment related activities at the host location
Day 15-16	Activity close out, host action plan preparation for implementing recommendations
Day 17	Debriefing including CRS country Office and Local mission
Day 18	Submit report and Departure to US

H. DESIRABLE VOLUNTEERS SKILLS

The volunteer will have the following qualifications and competencies:

- Experienced on Seedling grafting technology, Prior experience of diseases management in Pepper and killing Chilly.
- Communication and training skills for adult audience
- Available during assignment timing

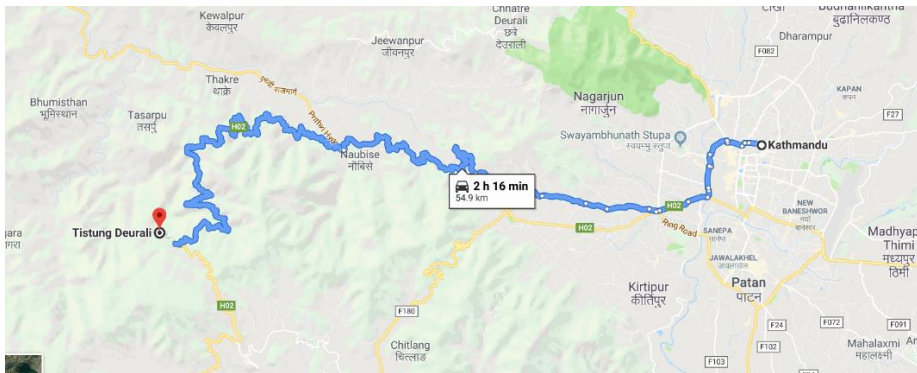
I. ACCOMMODATION AND OTHER IN-COUNTRY LOGISTICS

- Before travelling to the assignment place, the volunteer will stay in Kathmandu at one of the CRS’s client hotels, **Hotel Kutumba** <https://www.orbitz.com/Lalitpur-Hotels-Hotel-Kutumba.h33780567.Hotel-Information> or another hotel that will be booked and confirmed before the arrival date. In Kathmandu, the hotel usually has rooms that include services such as airport pickup and drop-off, breakfast, wireless internet, etc. The hotel or CRS will arrange a vehicle for short travel from the hotel to CRS and vice versa while in Kathmandu.
- All required materials will be prepared ahead of time and will be provided to the volunteer. CRS Nepal will provide the volunteer with a laptop computer (if s/he needs), local internet dongle (modem/EVDO) and mobile phone with charged local SIM-card. Any other required logistics and facilities can also be requested by the volunteer during her/his stay in Kathmandu. CRS will provide a vehicle and accompany the volunteer to the place of assignment.

- During the assignment period, the volunteer will be booked in a hotel at the project site, to be confirmed prior to volunteer arrival. CRS Nepal will arrange hotel accommodation and cover the lodging bills against receipts. CRS HQ will provide the volunteer with a per-diem advance to cater meals and incidences.
- Security information will be provided by CRS Nepal Security focal person at Kathmandu CRS Country office.

J. RECOMMENDED ASSIGNMENT PREPARATIONS

- Prior to travel, the volunteer is advised to prepare necessary training and demonstration aids and written handouts. Electronic copies of these handouts and any other printed materials can be printed for immediate use at the CRS office in Kathmandu on request by the volunteer.
- If the volunteer requires use of simple training aids like flip charts, markers or tape s/he should make the request and collect from the CRS office in Kathmandu prior to travel to the assignment place.
- Translation of handouts to the local language can be done at the assignment location if required.
- Depending on the meeting places and availability of electric power and LCD projector, the volunteer may use a laptop and projector for power point presentations.
- **Roads and transportation:** Thaha Municipality is easily accessible by motorable road from neighboring areas via the Tribhuvan Highway, which was Nepal’s first highway (built in the 1950s). This highway passes through 22km of the municipality. Other major roads include the i.e Palung–Bajrabarahi road, Shikharkot–Kitne Rupse– Furke–Kulekhani road, Bajrabarahi–Saraswati bazaar–Budhichaur road and Okhar bazaar–Indrenimai road.



- **Weather and climate:** Thaha Municipality climate is classified as warm and temperate. The summers here have a good deal of rainfall, while the winters have very little. The average annual temperature in Thaha municipality is 14.8 °C. The rainfall here averages 2263 mm. The least amount of rainfall occurs in December. Most of the precipitation here falls in July, averaging 606 mm. The temperatures are highest on average in July, at around 19.6 °C. January is the coldest month, with temperatures averaging 7.3 °C. The variation in the precipitation between the driest and wettest months is 600 mm. Throughout the year, temperatures vary by 12.3 °C.

Table: 1 Weather by month

	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature (°C)	7.3	8.8	12.7	16.8	18.6	19.4	19.6	19.4	18.4	16.4	11.8	8.5
Min. Temperature (°C)	1.1	2.5	6.2	10.9	13.3	15.3	16.1	15.6	14.6	11.4	5.5	2
Max. Temperature (°C)	13.6	15.2	19.3	22.8	23.9	23.6	23.1	23.2	22.3	21.5	18.2	15
Avg. Temperature (°F)	45.1	47.8	54.9	62.2	65.5	66.9	67.3	66.9	65.1	61.5	53.2	47.3
Min. Temperature (°F)	34.0	36.5	43.2	51.6	55.9	59.5	61.0	60.1	58.3	52.5	41.9	35.6
Max. Temperature (°F)	56.5	59.4	66.7	73.0	75.0	74.5	73.6	73.8	72.1	70.7	64.8	59.0
Precipitation / Rainfall (mm)	13	13	39	72	149	382	606	550	352	74	7	6

K. KEY CONTACTS

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